

Cracklin' Static

May 2021 Edition



**Zoom Virtual
meeting this
month See page
4....**

SNARS NET on DMR – Tuesday 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury Closing Balances As of 4/25/2021

Operating	\$8,309
Savings	\$11,328
Self Insurance	\$10,929
PayPal	\$1,925
Convention	\$4,295
Total	\$36,785

Net Monthly	\$802
Net YTD	\$1,824

Membership Renewals 32

SNARS Membership as of

Extra	164	37%
General	148	33%
Technician	119	27%
Advanced	16	4%
No License	0	0%
License Expired	2	0%
Total	449	

SNARS ARRL Members

Regular	252	56%
Life	40	9%

PRESIDENT'S VOICE

President John Byerly, N7ROJ

Email: mtnlion@gmail.com



Hello everyone!

It seems we are starting to see the light at the end of the tunnel on the pandemic and its restrictions! I hope everyone is healthy and well. With the governor's announcement that Nevada will open back up to full capacity in May and the decisions about gatherings become the decision of the local authorities, the board is going to start the process of finding a new place to meet. Boomtown is no longer an option, and after speaking to many members before the pandemic, it seems that a

change is needed anyways. We will keep you posted on the progress of a new meeting location.

Also we are looking into a celebration/BBQ/Outdoor event for the membership, as well as a club hamfest. It's time to get out, get together, and enjoy ourselves.

We have many things coming up, FIELD DAY!! 7th area QSO Party and the Nevada QSO party. I have heard we may even have some rover action too! Please make sure you take some time to enjoy our great hobby, and maybe try out some of these events.

I plan to have a busy radio-filled summer.

I hope you will too.

73 for now!

John/N7ROJ





PO BOX 7727 Reno NV 89510
 Yearly Dues: \$40.00 Individual • \$50.00 Family
 775.453.4142 <http://snars.org>

2020 Officers

President.....John Byerly, N7ROJ
 Vice-President.....John Miller N7JDM
 Treasurer.....Bill Jones, AE7OX
 Secretary.....Anthony Marcin, W7XM
 DirectorWes Vick, KG7QXE
 DirectorJim Shepherd, W6US
 DirectorBarry Bettman, K6ST

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Cracklin Static Howie Holden, WB2AWQ
 W7TA Trustee Peter DeBay, KE7VSR
 KR7ENO Trustee..... Howie Holden, WB2AWQ
 Control Operator Pat Sheehan, W7DED
 Youth Involvement..... Barry Bettman K6ST
 NVQSO Coordinator..... Jim Shepherd, W6US
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 Meeting Greeter Bill Jones, AE7OX
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 DMR Net Manager Anthony Marcin, W7XM
 Reno Ham Swap Vacant
 Webmaster Erik Andreasen, K6CZH
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Cracklin Static Publication

Editor: Howie Holden WB2AWQ - holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Published the week before meetings. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online



Online



Offline



Not Linked

Thank you to our Sponsors/Supporters



Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newslane	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Weak Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

SNARS Weekly DMR Net – Tuesdays
8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

QCWA meeting, Saturday, May 8, 11 AM to noon, Famous Dave's BBQ, 4925 Kietzke Ln, Reno. See page 9 for important details

SNARS Board Meeting Wednesday, May 12, 6:00PM Location and mode TBD

HAM RADIO NIGHT on Zoom 7:00 PM May 17, see <https://snars.org/hamradionight/>

Next months SNARS Breakfast Meeting – June 5
Location and media mode tentative depending on Board decision and local restrictions.

WELCOME NEW MEMBERS

AS OF 4-25-21

Michael	Meyer	KJ7YAP
Derek	Lentz	KJ7YAW
Sadie	Thomas	KJ7YAI
Josh	Craine	KJ7YAC
Thomas	Buehring	KJ7VHB
Aaron	Lewandowski	KD9SLL
Richard	Dolezal	KN6MXF
David	Ayer	KC7JMA
Lee	Barford	W7LAB
Jay	Hayden	SWL
Brandon	Nguyen	K7BTN
Timothy	Parrott	KD8QFK
Richard	Erskine	KJ7UWP

SNARS Virtual Monthly Meeting

SNARS (virtual on zoom conferencing) Monthly Meeting on
Saturday 5-1-21 8:00AM PDT

TOPIC: :

"How to make a J-pole collinear"
with Ed Fong, WB6IQN



TO REGISTER go to:

<https://zoom.us/meeting/register/tJYvfucrpzgrGtGpHoOhuKVMr3KAOrkFxX1m>

Any questions, email Barry k6st@arrr.net

Our guest speaker for the May meeting will be Ed Fong WB6IQN. As many of you know, he is the inventor of the DBJ-1 and DBJ-2 antenna that was featured in the February 2003 and March 2007 QST. His latest article in QST was the TBJ-1 - a triband base antenna published in March 2017. The DBJ-2 won the Plaque of the Month Award. There are over 30,000 of these antennas in use today. In this month's presentation, Ed will go through the design of a 2 element J-pole collinear which achieves a 3dB gain over single element J-pole. This technique can be expanded to 4 element J-pole and achieves 6dB of gain.



Ed Fong was first licensed in 1968 as WN6IQN. He later upgraded to Extra Class (he has a real Extra Class license when 20 WPM was required) with his present call of WB6IQN. He obtained the BSEE and

MSEE degrees from the Univ. of California at Berkeley and his Ph.D. from the Univ. of San Francisco. A Life Senior Member of the IEEE, he has 12 patents and over 40 published papers and books in the area of communications and integrated circuit design. Presently, he is employed by the University of California, Santa Cruz (previously with Berkeley from 1997-2010) as an instructor teaching graduate classes in RF design and high speed interface. In his 35 year career, he has done work for Stanford University, National Semiconductor, Advanced Micro Devices, and numerous startup companies in the Silicon Valley.

<https://edsantennas.weebly.com/about.html>



THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

7TH AREA QSO PARTY

The 7QP is an amateur radio QSO party, held annually on the first Saturday in May. That's May 1 this year. The stations of the US 7th call area (Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming) become "the pursued", and the rest of the US, Canada and the world tries to work as many of us, on as many bands/modes as possible, over an 18-hour period commencing at 6:00am PDT (1300 UTC).

This year, we are again going to have a QSO party of our own in October, and the 7QP will be an excellent opportunity to get some practice in before our big party!

Operate from home, mobile or dust off the Field Day gear and get on the air from a rare county or a county line where you can operate from two or more counties at once and get extra points! There are 54 multi county locations in Nevada not counting stateline locations with the other 7th area states. Please plan on making a few or a whole bunch of contacts, just be sure to mark May 1 on your calendar! Yes, that is the SNARS meeting date, but you can work the contest the rest of the day.

We are trying to get all 17 Nevada counties on the air. Go portable and blow the carbon out of the generator or stay home and try out that new wire antenna. Or you can go mobile and activate several counties in your area. Visit the 7QP website: www.7qp.org for additional information and the full rules. May is a good time for an early camping trip out to some of the less populated rural counties. Humboldt, Mineral, Nye, Carson, and Eureka counties can really use some help with contacts. You can work these from county line locations along I-80 and make twice the contacts at once. The free campgrounds at Walker Lake will give you some spectacular views, wildflowers, bighorn sheep, and you can use the lake for a big "radial field" giving you an excellent signal to the east where you will make most of your contacts. Do not overlook the junctions of Nevada counties and other '7' states for interesting expedition operations.

Contacts can be made using SSB, CW, and Digital modes and each mode counts as a different contact. You can also contact the same station on different bands for credit. You can use 160, 80, 40, 20, 15, and 10 meters.. CW and digital contacts will be highly appreciated as the CW count 3 points and the digital modes count 4 points... PSK31 and RTTY will be the best way to go to get those extra QSO points, sorry you can't use FT8. All the counties in Nevada can use more CW and Digital operations for this contest. Those members of FISTS and QCWA also need to activate all the counties on CW with lots of operations. The more stations active in each county on different modes will make a better contest for everyone.

Countyline expedition operations are especially welcomed! With a good antenna, you will have the opportunity to make tons of con-

tacts. Last year, SNARS Club member KROARK won the 7th area Open Expedition class right here in Nevada by operating from several different 2 county line positions. There are 35 spots where 3 counties come together, with most having roads within 500'. Others will require some hiking and would be best for QRP operation like you would do for SOTA.

If you plan to participate, even for a little while, do two things. First, you can see the activity on the [Planned Operations](#) tab on the 7QP page. Then, send your projected operation location(s) to 7qpops@codxc.org giving them information on modes and if you will be a mobile (rover) station. That way they can track the counties that will be covered and we can try to find someone to go out to the counties that are not. Even if the county is covered, digital and CW operators are encouraged to also go out there... Second, email them a copy of your log when you are finished. Either Cabrillo (preferred) or ADIF format will work. Even better, use their new web entry site at <https://7qp.contesting.com/> Your log helps them score the contest and automatically enters you – no summary sheet required for email or web entries. See their webpage for more information on uploading your log.



The exchange is easy... Just give a '59' signal report and if you are operating in the 7 call zone, your county code. For Washoe, it is NVWAS, for Storey, it is NVSTO... If you are outside of the 7 call zone, you give a '59' signal report and your 2 digit state abbreviation. There are special rules for county line stations, and you may get a report from one of the eastern states that are also having a QSO party. Be sure to give the 5 digit county abbreviation, i.e. NVCAR, and give it phonetically on phone. Also be sure to give your callsign with each exchange, especially if you are running. See the complete rules on their website for more information and a full list of county abbreviations.

There are a couple of other QSO parties that weekend so there is a lot of activity. The N1MM Logger will handle all of the contests at the same time so you only have to send copies of your Cabrillo log to each of the different sponsors. New England, Indiana and Dela-

ware are currently the other states—be sure to check their rules if you intend to play with them. Also, be sure to update your copy of N1MM so that it has the latest version. There are ways to log all 4 contests correctly since there will be lots of activity on the bands.

In October, we will have the Nevada QSO party and we will need veteran operators in all the counties and on all of the modes. We will have a special VHF class that will allow the use of repeaters which will get a lot more people involved. Check out our website at <http://nvqso.com/> and look for updates over the coming months.

Nevada is a semi-rare state and some of the counties are very hard to work. These two contests will help to fill some holes in the log-books. A good turnout for the 7QP will help with increased participation for our NVQSO Party and will show the world that we actually have hams here in Nevada!

MIKE'S MISSIVES CHAPTER FIFTY SIX

Mike Katz, N7MSK

47 CFR § 97.221 Automatically controlled digital station.

- (a) This rule section does not apply to an auxiliary station, a beacon station, a repeater station, an earth station, a space station, or a space telecommand station.
- (b) A station may be automatically controlled while transmitting a RTTY or data emission on the 6 m or shorter wavelength bands, and on the 28.120-28.189 MHz, 24.925-24.930 MHz, 21.090-21.100 MHz, 18.105-18.110 MHz, 14.0950-14.0995 MHz, 14.1005-14.112 MHz, 10.140-10.150 MHz, 7.100-7.105 MHz, or 3.585-3.600 MHz segments.
- (c) Except for channels specified in § 97.303(h), a station may be automatically controlled while transmitting a RTTY or data emission on any other frequency authorized for such emission types provided that:
- (1) The station is responding to interrogation by a station under local or remote control; and
 - (2) No transmission from the automatically controlled station occupies a bandwidth of more than 500 Hz.

[60 FR 26001, May 16, 1995, as amended at 72 FR 3082, Jan. 24, 2007; 77 FR 5412, Feb. 3, 2012]

SHORT TAKES (By Jim Shepherd W6US)

CONTEST CALENDAR

The State QSO Party season continues with 17 more states this month. The 7QP and the New England parties will encompass 14 of these states, while Indiana and Delaware are adding to the pile with all having their parties on May 1; Arkansas will be having theirs on May 8th. The information for all of these are at:

<https://www.contestcalendar.com/stateparties.html> In addition to the State contests, the Hamvention QSO party will be on May 21st. The CQ WPX CW contest is the last weekend of the month for some heavy activity. You can get the full information about these and other contests at:

<https://www.contestcalendar.com/contestcal.html>

home QTH operating as they are in the same situation that we are with Covid19. There are some operations starting to pick up. International travel is still impacted, so announced expeditions are very few... Christmas Island and Niger are two of the better rare ones this month. More information can be found at:

<https://www.ng3k.com/Misc/adxo.html>

THIRD MONDAY ZOOM HAM RADIO NIGHT

We will see our popular Ham Radio Nights via ZOOM to get your questions answered. It will be held at 7pm on Monday, May 17. More information, including the link will be published before that date.

DX

There are lots of other stations who might be on the air from their

NAME THAT RIG

(Answer on page 9)



YOUTH INVOLVEMENT

ARRL KIDS DAY

June 19, 2021 11AM - 5PM PDT

Twice a year (January and June), ARRL offers an event designed to promote Amateur Radio to our youth. Share the excitement with your kids or grandkids, a Scout troop, a church or the general public!



Kids Day is designed to give on-the-air experience to young people and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children.

Suggested Frequencies-

10 Meters: 28.350 to 28.400 MHz

12 Meters: 24.960 to 24.980 MHz

15 Meters: 21.360 to 21.400 MHz

17 Meters: 18.140 to 18.145 MHz

20 Meters: 14.270 to 14.300 MHz

40 Meters: 7.270 to 7.290 MHz

80 Meters: 3.740 to 3.940 MHz

You can also use your favorite repeater (with permission of the repeater's sponsor).

Be sure to observe third-party restrictions when making DX QSOs.

Suggested Exchange-

Name, age, location and favorite color. Be sure to work the same station again if an operator has changed. To draw attention, call "CQ Kids Day."

Kids Day Certificate of Participation-

All participants are eligible to receive a colorful certificate. You can [download this certificate](#) and complete it with the participant's name and date of the contact.



Any questions about Kids Day youth Involvement, contact Barry K6ST - k6st@arrl.net

Nevada Section Youth Coordinator

CQ Kids Day de WA9LGQ

(By Chuck Crist, W9IH, ARRL Indiana Assistant Section Manager)

Fun was the apparent result of a successful recipe--a recipe that included lots of preplanning, food, and Ham Radio. At the Indianapolis the Red Cross Chapter house, the Red Cross radio disaster group sponsored its very first Kids Day event.

Amateur Radio operators and club members of the group began setup and testing early the week before January the 6th in order to prepare for the Kids Day on the air event.

Led by Steve Wendt, KB9RDS, hams not only took time to demonstrate Amateur Radio but let the visiting kids spend time on the air talking and working other kids across the USA. The club setup code practice areas for kids and parents to expose them to the Morse Code that Hams use on the air during CW communications.

A log sheet was available for each kid, and Steve had an area for helping the kids fill out their individual sheets in preparation for the contacts they would soon be making.

Steve Wendt, KB9RDS: "OK! This is where we start; these our your radio logs..."

On to the radio room, where club members were ready with five stations in all; one each on 10, 15, and 20 meters, and two on 2 meters. Kids could wonder from station to station and make contacts as the day progressed.

Read more: <http://www.arrl.org/kids-day>

W7SSB's FUN STUFF

NEWS!!!

1. **HRO** is opening a store in Sacramento and will have a grand opening!

Right now they are hiring staff and getting the store set up.

Opening date will be in July, more to follow regarding opening date.

2. **DX Engineering** is looking for a "ham" to run their amateur operation at Summit Racing in Sparks. Details are on the DX Engineering website under employment.

(Editor's note: Click on this link <https://www.dxengineering.com/aboutus> and click on "Career Opportunities" on the left side.)

DXPEDITIONS

Here are two different dx expeditions to the Spratly Islands.

The 1979 and the 1983 expeditions with very different results.

Please read and enjoy both stories . Our hobby can be interesting, informative, fun and sometimes dangerous

<https://jackandjude.com/short-stories/spratly/>



http://dokufunk.org/upload/dx_magazine_spratly.pdf?PHPSESSID=49b540aa0adde3a978d73310a885282c



Update in 2000 things have changed on the Spratly .

<http://paracelspratlyislands.blogspot.com/2008/01/american-role-in-south-china-sea.html>

Spratly Islands today are becoming a Chinese military and fishing base.



Tensions over the resource-rich waters have spiked in recent weeks after more than 200 Chinese boats were detected at Whitsun Reef, in the Spratly Islands, where China and the Philippines have rival claims.

I thought a little ham radio, history and current events should be of interest to one and all.

73,

Don W7SSB

FUN STUFF FOR MAY

May has no ARRL/NCJ sponsored contests, but it has the 7QP (shown in BOLD). That first weekend there's also the Indiana, Delaware, and New England QSO parties, so it should be a great, confusing QSO party weekend. Fortunately, all the exchanges are the same (RS(T), and state/county, so exchanges should be easy to integrate. Should you work anyone in the other parties, be sure and report your results with them also. Arkansas comes in the second weekend all by themselves.

1 May 0001 to 2 May 2359 28 10-10 International Spring Contest, CW www.ten-ten.org

1 May 1300 to 2 May 0700 1.8-28 7th Call Area QSO Party CW Ph Dig www.7qp.org

1 May 1500 to 2 May 0300 1.8-28 Indiana QSO Party CW Ph www.hdxcc.org/inqp/rules.html

1 May 1700 to 2 May 2359 1.8-VHF Delaware QSO Party CW Ph www.fsarc.org/qsoparty

1 May 2000 to 2 May 2359 3.5-28 New England QSO Party CW Ph Dig www.negp.org/rules.html

8 May 0001 to 9 May 2359 3.5-144 Day of the YLs Contest CW Ph www.ka1uln.blogspot.com

8 May 1400 to 9 May 0200 3.5-144 Arkansas QSO Party CW Ph www.arkqp.com

21 May 1200 to 21 May 2359 3.5-28 Hamvention QSO Party CW Ph www.wwrof.org

29 May 0000 to 30 May 2359 1.8-28 CQ WW WPX Contest, CW CW RST, serial www.cqwp.com

A complete list of contests is at:
<http://www.arrl.org/files/file/Contest%20Corral/2021/May%202021%20Corral.pdf>

If you're not into contests, there's always DX to chase! We're still seeing the effects of Covid-19, and the pickin's are slim but slowly improving. I'll list all that's on the calendar, until the stack improves! Another point: Last month a lot of stations got onto the DXpedition list after CS publication for the CQ-MM contest. You might check the site below frequently to see if any other stations show up late in May.

Apr 08 to May 01	Greenland	OX3LX
Apr 26 to May 09	Svalbard	JW6VDA
May 07 to May 25	Christmas Island	VK9XX
May 23 to Jun 05	Martinique	FM
May 30 to Jun 30	Tonga	A35JP

Check <https://www.ng3k.com/Misc/adxo.html> for updates on DXpeditions to make sure they're still a go!

RENO QRP SLOW SPEED CW NET

NEXT NET SESSION WILL BE May 5, 10 AM PDT. Target frequency 7.045 MHz, if busy search somewhere near that frequency.

THE FOLLOWING SHOULD ALWAYS BE IN YOUR REPORT

NAME ,RST, LOCATION, RIG, POWER, ANTENNA.

REMEMBER TO INCLUDE RST IN YOUR REPORT

Feel free to add something else in your exchange.

Take some time to report RST for other OP's or anything else that comes to mind.

Sharing information about you and your equipment will accomplish two things.

First It gives you and everybody else practice sending and copying.
Second It is nice to spend time on the air with your friends. Consider this a QRP meeting on the air.

Relax and have some airtime fun with your friends.

73/72 Ed/WD7Y

NAME THAT RIG (from page 6)

In 1984, **Heathkit** introduced the last of its three very popular HF QRP transceivers. The **HW-9** was the same size as the others (HW-7 and HW-8), but internally it was a wholly different unit. Utilizing a superheterodyne receiver instead of direct conversion type, slightly higher power than its predecessors, and with the option of including the WARC bands (at an additional price of course!), the **HW-9** was vastly superior to the two preceding models. The **HW-9** featured 4 watts output, dropping to 3 watts on 10 meters, RIT, and way better receive capability. The **HW-9** continued in the Heathkit line until Amateur kit sales ceased in 1991. Incidentally, the first HW QRP, the HW-7, was introduced in 1972, the HW-8 in 1976. So the lineage lasted almost two decades. All of the HW QRP series are still relatively available on the used market, and are quite popular with vintage operators, but the **HW-9** is less available than the other two. QRP is very much alive and well these days, thanks in part to the success of Heath's HW series QRP rigs.

QCWA –IMPORTANT INFO!

Quarter Century Wireless Association, Reno Chapter 190 will hold their semi-monthly meeting on Saturday, May 8, 2021 at Famous Dave's Bar-B-Cue located at 4925 Kietzke Lane. Meeting and lunch starts at 11:00 AM. This will be an organizational meeting due to the death of President Greg Roush WA7IRW (SK).

Social distancing and masks are required.

ARES NEWS

TAHOE RIM TRAIL HAS BEEN APPROVED

Are you a camper? **July 18- 19 is the Tahoe Rim Trail.**

The TRT 100 Mile Back Country Run consists of three runs, a 100 Mile, 50 Mile and 55 K Run starting in Carson City, North along the East "Tahoe Rim Trail" and back to Carson City. The run starts at 0600 Saturday morning and ends at 1600 Sunday.

OUR MISSION:

To provide clear, concise communications between aid station captains and event coordinators. To expedite emergency communications between aid stations, event coordinators, net control and emergency responders. To ensure a safe and enjoyable event and to support the awareness and growth of Amateur Radio in the community.

If you like to camp-out, we could use your help. Even if you do not have a portable station, we need a **minimum** of 2 Hams per aid station.

Most aid stations require 4WD except the Diamond Peak aid station, in fact you could bring a camping trailer or RV.

If you cannot camp out, can you operate during the day, Saturday, or Sunday? You can drive in and out of Diamond Peak Aid Station?

If you do have camping gear but do not have 4WD you could be teamed up someone who does and ride with one of them.

START FINISH (NCS) Carson City, **Aid Stations:** Hobart, Bull Wheel, Tunnel Creek, Diamond Peak, Snow Valley Peak, Red House.

NOTE: The START/FINISH has been changed from Spooner Lake to Carson City, South of the Western Nevada Musical Theater Company.

https://docs.google.com/spreadsheets/d/1xg5ltEgE0TZ8X3MGXOPfJmmPs_dLS4tEgMzqsHL4Pxc/edit#gid=0

* * * * *

Mark your calendar 9/15-9/19 2021 is the schedule for the Reno Air Races unless it is cancelled because of COVID.

We help with security, checking passes of people going to the PITS which where the race teams prepare the planes for their races or checking passes of people going into the grandstands.

If you want FREE access to the Air Races, I have two options:

For full access to everywhere the public goes including free parking, help with 16 hours volunteer time and you will be able to **attend any time during the week**. Many times, we help with security the entire week so you can spread the 16 hours over several days.

The second option, for people that cannot put in 16 hours of volunteer time, volunteer four hours, you can get a **one-day pass**, full access to the race including parking.

Anyone over 18 can help, you do not have to be a Ham or a member of ARES.

Just contact me Bob WA6MTY and I will keep you up to date. Wa6mty@GBIS.COM

Washoe County ARES Emergency Coordinator,

Bob Miller, WA6MTY WA6MTY@wcares.us Tel (775) 843-5952

MORE LIFE IN THE PHILIPPINES

Most of those that are involved in farming in the Philippines do not get to travel very much, unless it is for business purposes. There are so many daily tasks to take care of, particularly if livestock is involved. When we were able to raise pigs, and our herd had increased from 2 sows to 8 sows, with an average of 25 additional piglets, we were kept very busy with feeding, cleaning, immunizations and other tasks. This is on top of taking care of our poultry, dogs and cats. We also have our crops, orchard, and subsistence garden, with table vegetables. Of course this is why many traditional farming families have many children.

We lost our pig herd to African Swine Fever at the end of 2019. Most of the pigs were sold before they got sick, and did not die on

the farm, but the market price was so low that we took about a US\$4000.00 loss. We have not restarted raising pigs, as the virus is still present on the island, and is viable for 6 to 12 months in soil and some other surfaces.

Since we do not have as intense animal husbandry tasks to do, we are able to travel some. We were able to get away two different times to an area in the foothills of the Sierra Madre mountains called "Tanawan", or "Tana Juan." The word Tanawan is the name for "eagle", and this area gives people an eagle-eye view of the southern Luzon island plain. For Cecilia, it is the first time in her life for sightseeing. Of course the kids have also not been far from the farm either.



GREETINGS AND 73 FROM JON, KF7KTC,
IN JAEN, NUEVA ECIJA, PHILIPPINES



VIEW FROM THE HILLTOP



FAMILY PHOTO AT THE "TANA
JUAN" VIEWPOINT

SNARS (MONTHLY) ZOOM HAM RADIO TECH NIGHT

Ham Radio Night

3rd Monday of each month at 7PM PDT on Zoom

Join together and Elmer each other for Ham Radio Night on May 17, 2021



The topic smaller breakout groups will be:

Antennas/RFI
Analog VHF/UHF
DMR/Fusion
Portable Field Ops

Each participant can move themselves around to different breakout topics in zoom conferencing to enjoy.

If you have any questions or would like to be of service as an Elmer, please contact K6ST Barry k6st@arri.net

Feel free to register for our next Ham Radio Tech Night, SNARS (virtual on Zoom conferencing) 5-17-2021 7:00PM PDT

REGISTER AT:

<https://zoom.us/meeting/register/tJYofuCsqzopH9ePHtZmPq96U3EUYx59qsze>

RF SAFETY

ARLB011 Updated Radio Frequency Exposure Rules Become Effective on May 3.

ZCZC AG11
QST de W1AW
ARRL Bulletin 11 ARLB011
From ARRL Headquarters To all radio amateurs

The FCC has announced that rule changes detailed in a lengthy 2019 Report and Order governing RF exposure standards go into effect on May 3, 2021. The new rules do not change existing RF exposure (RFE) limits but do require that stations in all services, including amateur radio, be evaluated against existing limits, unless they are exempted. For stations already in place, that evaluation must be completed by May 3, 2023. After May 3 of this year, any new station, or any existing station modified in a way that's likely to change its RFE profile - such as different antenna or placement or greater power - will need to conduct an evaluation by the date of activation or change.

The Report and Order can be found online in PDF format at:
<https://docs.fcc.gov/public/attachments/FCC-19-126A1.pdf>

"In the RF Report and Order, the Commission anticipated that few parties would have to conduct reevaluations under the new rules and that such evaluations will be relatively straightforward," the FCC said in an April 2 Public Notice. "It nevertheless adopted a 2-year period for parties to verify and ensure compliance under the new rules."

The Amateur Service is no longer categorically excluded from certain aspects of the rules, as amended, and licensees can no longer avoid performing an exposure assessment simply because they are transmitting below a given power level.

"For most amateurs, the major difference is the removal of the categorical exclusion for amateur radio, which means that ham station owners must determine if they either qualify for an exemption or must perform a routine environmental evaluation," said Greg Lapin, N9GL, chair of the ARRL RF Safety Committee and a member of the FCC Technological Advisory Council (TAC).

"Ham stations previously excluded from performing environmental evaluations will have until May 3, 2023, to perform these. After May 3, 2021, any new stations or those modified in a way that affects RF exposure must comply before being put into service," Lapin said.

The December 2019 RF Report and Order changes the methods that many radio services use to determine and achieve compliance with FCC limits on human exposure to RF electromagnetic fields. The FCC also modified the process for determining whether a particular device or deployment is exempt from a more thorough analysis by replacing a service-specific list of transmitters, facilities, and operations for which evaluation is required with new streamlined formula-based criteria. The R&O also addressed how to perform evaluations where the exemption does not apply, and how to mitigate exposure.

Amateur radio licensees will have to determine whether any existing facilities previously excluded under the old rules now qualify for an exemption under the new rules. Most will, but some may not.

"For amateurs, the major difference is the removal of the categorical exclusion," Lapin said, "which means that every ham will be required to perform some sort of calculation, either to determine if they qualify for an exemption or must perform a full-fledged exposure assessment. For hams who previously performed exposure assessments on their stations, there is nothing more to do."

The ARRL Laboratory staff is available to help amateurs to make these determinations and, if needed, perform the necessary calculations to ensure their stations comply. ARRL Laboratory Manager Ed Hare, W1RFI, who helped prepare ARRL's RF Exposure and You book, explained it this way. "The FCC did not change any of the underlying rules applicable to amateur station evaluations," he said. "The sections of the book on how to perform routine station evaluations are still valid and usable, especially the many charts of common antennas at different heights." Hare said ARRL Lab staff also would be available to help amateurs understand the rules and evaluate their stations."

RF Exposure and You is available in PDF format for free download from ARRL at:

<http://www.arrl.org/files/file/Technology/RFsafetyCommittee/28RFSafety.pdf>

ARRL also has an RF Safety page on its website at:
<http://www.arrl.org/rf-exposure>

The ARRL RF Safety Committee is working with the FCC to update the FCC's aids for following human exposure rules - OET Bulletin 65 and OET Bulletin 65 Supplement B for Radio Amateurs. In addition, ARRL is developing tools that all hams can use to perform exposure assessments.

NNNN

Editor's note: Have YOU done the requisite RF analysis under current rules? It's required, easy to do, it could be an eye opener, especially for those who run an amplifier, AND, if you do it now, you won't have to do it again unless you make changes to your station which may affect RF exposure (antennas, locations, amps, etc.)! If you don't, be aware the new regs are a bit complicated, and there's nothing yet to make the calculations easy. Deadline is May 3, don't wait!!!! There are no exemptions under the new rules. At higher frequencies in particular you'd be surprised at how little power it takes to be afoul of the rules. Yours truly, with his modest 100 watts has to cut power back on 10, 12, and 15 meters, or keep antennas away from near property lines to stay legal. There is a calculator at the bottom of the last link from the ARRL, or here:

http://hintlink.com/power_density.htm Remember, this is only good till May 3. See the following page for more info on the new requirements.

WB2AWQ

Topic: FCC Radio Frequency Exposure Rules

From: RATPAC Planning <ratpacplan@gmail.com>

Date: Thu, Apr 22, 2021 at 2:43 PM

Subject: [SEC-ARES] Follow-up: Wednesday April 21: FCC Radio Frequency Exposure Rules

To: <SEC-ARES@groups.io>

Topic: FCC Radio Frequency Exposure Rules

Speaker/Presenter: [Greg Lapin, N9GL](#)

View Video: <https://vimeo.com/540342124>

Download Video: <https://vimeo.com/user107547861/download/540342124/36ae948e83>

Documents: https://www.dropbox.com/sh/mq3djoyqppeucwg/AACjeZjnNjFcDINtEI_B6xPpa?dl=0

Please feel free to share this and our other presentations with your friends, clubs and organizations

Notes: Be sure to view documents (link above) for additional information and important links.

Join our SEC-ARES group for announcements and discussions at <https://groups.io/g/SEC-ARES>

Join NewHams for the same announcements, but different discussions at <https://groups.io/g/NewHams>

Join our RATPAC group for same announcement, less discussion <https://groups.io/g/RATPAC> Please be sure to include your name and call sign when registering

Send presentation comments and suggestions to RATPAC Planning committee ratpac.plan@gmail.com

Past RATPAC Presentations: [Published Format list](#)

Note: We are currently working to put these videos on YouTube... Stay tuned

Best of 73 - Please stay safe

~Dan

Dan Marler, K7REX

ratpac.plan@gmail.com

Radio Amateur Training Planning and Activities Committee (RATPAC) comprises ARRL section managers, appointed field leadership, and membership. Together, we host nationwide Amateur Radio Zoom presentations twice-a-week, Wednesdays on general radio topics and Thursdays on amateur radio emergency communications. The topics are selected from audience recommendations that the planning committee then seeks topic experts or discussion panel members. The presentation audience consists of thousands of amateur radio operators worldwide who participate directly in the Zoom sessions or with video links of the presentation and related documentation sent out after each session.



ARRL Field Day

ARRL Field Day is the most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations

(SNARS is hosting Field Day at Washoe Lake State Park, June 25-27. See the March 2021 issue of Cracklin Static for details or email Jim Shepherd W6US with how you can help: nvjims@gmail.com)



Board of Directors Meeting Minutes

April 14, 2021 - 6:00PM

At Chin Chin plus Zoom

1. Call to order and roll call at 6:00 PM

Board of Directors:

Anthony Marcin, W7XM	P	Barry Bettman, K6ST	P	John Miller, N7JDM	P
Bill Jones, AE7OX	P	John Byerly, N7ROJ	P	Wes Vick, KG7QXE	P
Jim Shepherd, W6US	P	Doug Edmondo, W7DBE	P		P

Guests: Julie Dodge for presentation of club branded items such as masks and caps

2. Approval of Minutes - Discussion/Action

The Board approved the March 2021 meeting minutes

3. Approval of Agenda - Discussion/Action

The Board approved the April agenda

4. Reports

A. President's Report: Was able to get upto Ophir and Davidson and got everything up and running. Sites generally look good. Setting up the link radios for reboots over the air and still getting set to finish the DC conversion works. Dave Metz to drop a line from his generator to us to connect to one rectifier. Also working on the Dr. Sandy equipment donation.

B. Secretary Report – 450 members and reworking the member status report and membership categories in the website.

C. Treasurer – March 2021 End of Month, Operating: \$8,159, Savings: \$11,202, Self Insurance: \$10,679, Paypal: \$1,648, Convention: \$4,295. Net Monthly \$1,019 net YTD: \$1,022. Memberships 25, Monthly donations \$92. Donations year to date \$440 (Amazon \$69, Members \$353, Paypal \$18) Notes:

5 tenants on lower Peavine billed – 3 paid to date, last 2 will be rebilled on 4/8. Bill reported at the meeting that all 5 have now paid.

Transferred \$1250 from PayPal to Operating.

Transferred \$250 from Operating to Self Insurance.

Transferred \$125 from Operating to Savings.

D. Technical Team – Pat indicated he will have the repeater upgrade plan for May's meeting. Dave Metz assured us that we will get something up for the 440 machine on Pevine this year. Jim noted that the East side machines are working fine.

E. Control Operators / Trustee – No report

F. Events

Getting close – maybe we do an afternoon BBQ in late June or July

G. Education & Youth Activities

Sent a letter to the ARRL CEO; working on something, local level, more donations for UNR club. Noted Kids Day 3rd week of June – looking to see if they can do something.

H. Noon Net - Noon Net Manager – Nothing to report

5. Old Business

A. Members Only Website – Still tweaking

B. In person monthly meetings – John and or John going to talk to Best Western

C. “Ham Fest” type of events – Barry is going to call Cabella's

D. Field Day Support Needs / Status – Jim has kitchen help, will putting out a request for staff. Stated we are in good shape for field day. 7QP is also working.

6. New Business

A. Broadcastify Support – KK7TTL, setup a feed. He will continue to provide the service.

B. Julie Dodge – SWAG Presentation – Julie presented a cool SNARS branded mask and discussed caps, swag bags and other ideas. Board approved buying 20 masks for internal marketing and try outs at \$7 each.

7. Board member and Public Comments

During this time members and board of directors may speak on any topic regardless if the item was agendaized.

John B. - Nothing; Jim S. – we need to clean up the storage shed; John M. - will contact Best Western; Wes V. - all good; Bill J. - would UNR like the donated tower; discussion was probably not. WA7IRW – Barry has been trying to contact the estate. Barry – AF6A and he discussed ideas like a new HAM orientation which can be included with Tech Night.

8. Adjournment - Action

A. Next Meeting: May 12, 2021. Location TBD

B. Call For Adjournment.